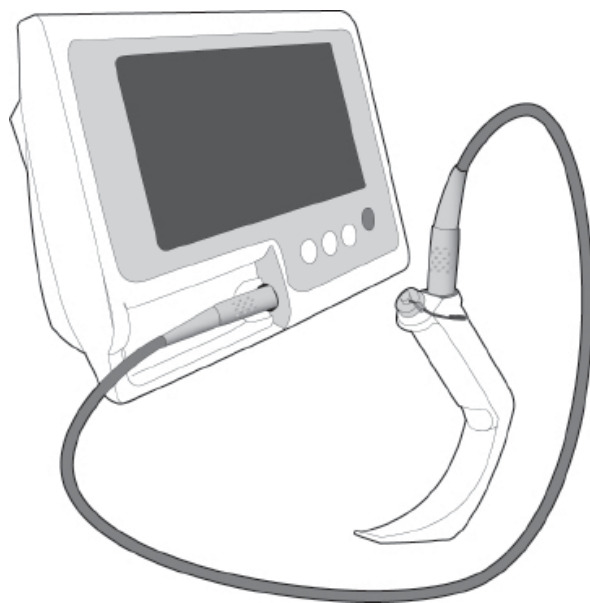


 **GLIDESCOPE®**
Video Laryngoscopes



System Operation & Service Manual

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Sterrad® is a registered trademark of Johnson & Johnson Gateway, LLC.

The GlideScope® technology is covered under US Patents (6,655,377) (6,543,447) (6,142,144) as well as European Patent 1307131. Additional patents pending.

Information in this Operation & Service Manual may change at any time without notice. For the latest version of this manual refer to www.verathon.com.

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1. Important Information

Product Description and Intended Use

The GlideScope® Video Laryngoscope (GVL®) is a video laryngoscope that incorporates a high-resolution color camera located in the blade, an LED light source, a rechargeable lithium polymer battery, and video output for remote display or video recording.

The GlideScope® Video Laryngoscope is useful for anterior airways, obese patients, and patients with limited neck extension. Additionally it is useful for teaching purposes, verification of ET position, nasal intubation, and ET exchange. The GVL® system is recommended for use with a styletted endotracheal tube.

Intended Use

Federal (USA) law restricts this device for sale by or on the order of a physician.

The GlideScope® Video Laryngoscope system should be used only by individuals who have been trained and authorized by a physician or the institution providing patient care.

Notice to All Operators

All operators should read this manual prior to using the GVL® system. Failure to follow these instructions may compromise the performance of the system and may void the system warranty.

Verathon® recommends that all new users practice using the GlideScope® on a mannequin before clinical use. Verathon® recommends that new GlideScope® users acquire clinical experience on patients without airway abnormalities.

Cautions



Caution. Risk of permanent equipment damage. Do not expose the GlideScope® Video Laryngoscope to temperatures above 140°F (60°C). Do not disinfect or sterilize the GlideScope® using devices such as autoclaves, ultrasonic cleaners, or pasteurizers. Use of such methods to disinfect/sterilize the GlideScope® will cause permanent device damage and void the warranty. Refer to pages 49-56 for approved cleaning procedures and products.



MDD Class 1 Equipment Caution: Electrical Shock Hazard Refer Servicing to Qualified Personnel.

This equipment has been tested and found to comply with the standards listed in the Approvals section of this manual. These limits are designed to provide reasonable protection against harmful interference in typical medical installations.

The equipment generates, uses, and can radiate radio frequency energy and if used properly is very unlikely to cause harmful interference to any other device(s) in the vicinity.

However, there is no guarantee that interference will not occur in a particular installation. Interference can be determined by turning the equipment on and off. If this equipment does cause interference with other devices, try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving device.
- Increase the separation between equipment.
- Connect the equipment to an outlet on a circuit different from that to which the other device(s) is (are) connected.
- Consult your Verathon Medical® representative.

NOTE: The GlideScope® Video Laryngoscope must be used with Verathon® supplied cables to maintain EMI within certified limits.

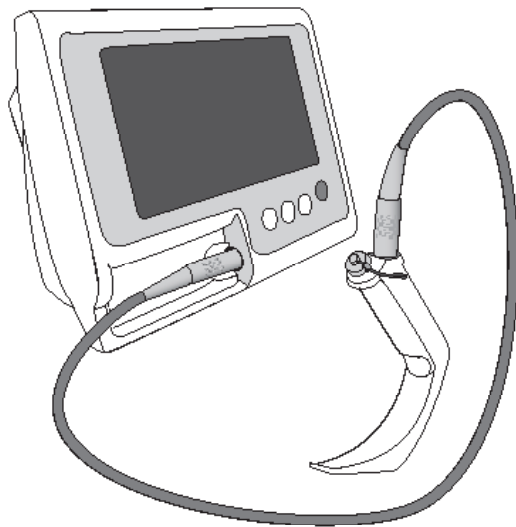
Users should be aware that portable and mobile equipment (cellular phones, etc.) can affect medical electrical equipment and take appropriate precautions during operation.

2. Introduction

The GlideScope® Video Laryngoscope is designed to provide an unobstructed view of the vocal cords through the use of advanced video technology. Use of the GlideScope® Video Laryngoscope has been found to help eliminate uncertainty during tracheal intubation by providing a reliable view of the airway 99% of the time.*

The GlideScope® Video Laryngoscope (GVL®) is an ideal tool for physicians and other healthcare professionals who need to effectively manage standard to difficult airways. The GlideScope® is designed to provide an unobstructed view of the vocal cords through the use of advanced video technology. Large, Mid-Size, and Small versions of the GlideScope® are available to address the particular requirements of each patient.

The GlideScope® system is ideal for pre-hospital and emergency environments where mobility is essential. It also integrates easily into standard ED, OR, and ICU applications.



* Cooper RM. Cardiothoracic Anesthesia, Respiration and Airway; Early clinical experience with a new video laryngoscope (GlideScope®) in 728 patients. *Canadian Journal of Anesthesia*. 2005; 52: 2: 191-198.

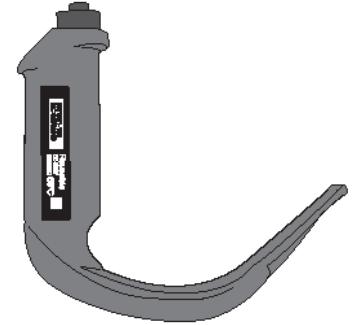
GlideScope® Video Laryngoscopes

The GlideScope® Video Laryngoscope is available in a range of sizes and configurations.

NOTE: All models of the GlideScope® Video Laryngoscope include an integrated CMOS camera, an LED light source, a patented anti-fog mechanism, and a reusable, medical-grade robust plastic shell. Weights average .12 kg.

Large GlideScope® Part number: 0574-0001

The GlideScope® Large GVL® is designed to facilitate fast, easy, and safe intubation for patients weighing 66 lbs morbidly obese (30 kg and above).

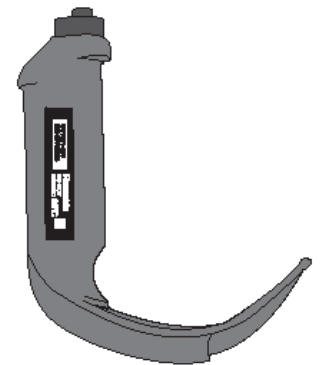


Specifications:

- Tip to front of handle: 101mm
- Thickness (height) at camera pod: 14mm
- Width of camera pod: 27mm
- Blade length in front of camera pod: 58mm
- Max blade width in front of camera: 26mm

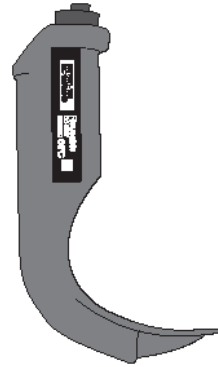
Mid-Size GlideScope® Part number: 0574-0007

The GlideScope® Mid-size GVL® is designed to facilitate fast, easy, and safe intubation for patients weighing 22-242 lbs (10-110 kg).



Specifications:

Tip to front of handle:82mm
 Thickness (height) at camera pod: 14.5mm
 Width of camera pod: 17mm
 Blade length in front of camera pod: 52mm
 Max blade width in front of camera: 19mm



**Small GlideScope®
 Part number: 0574-0010**

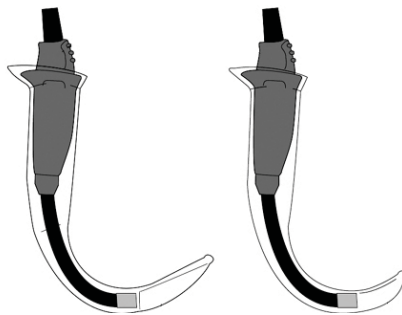
The GlideScope® Small GVL® is designed to facilitate fast, easy, and safe intubation for small patients (3.3 lbs - 44 lbs / 1.5 kg - 20 kg)

Specifications:

Tip to front of handle:47mm
 Thickness (height) at camera pod: 14.5mm
 Width of camera pod: 16mm
 Blade length in front of camera pod: 36mm
 Max blade width in front of camera: 16mm

**GlideScope® Cobalt
 Single Use:
 Part numbers:**

GVL® Stat Large: 0574 - 0020
 GVL® Stat Small: 0574 - 0022
 GlideScope® Cobalt Video
 Baton: 0570 - 0185



Composed of the reusable GlideScope® Cobalt Video Baton and the single use GVL® Stat. Large GVL® Stats are suitable for patients 88 lbs (40 kg) to morbidly obese.* Small GVL® Stats are suitable for children and small adults. **Large GVL® Stat Small GVL® Stat**

* Morbidly obese defined as 99 lb (45 kg) above ideal body weight.

GlideScope® Configurations

The GlideScope® may be configured in one of three ways to best suit the needs of your practice (Figure 1):

Figure 1. GlideScope® Configurations



GVL® mounted on a mobile stand. See Figure 5, page 13, for components and part numbers.

GVL® in a hard shell case. See Figure 6, page 14, for components and part numbers.

GVL® mounted on an IV pole. See Figure 7, page 14, for components and part numbers.

3. Getting Started

Initial Inspection

Upon receipt, inspect the components of the GlideScope® Video Laryngoscope System for any obvious physical damage that may have occurred during shipment. Verathon Medical® recommends that the inspection be performed by a biomedical engineer or other qualified professional who is familiar with electronic medical devices.

The GlideScope® Video Laryngoscope System can be configured in one of three ways depending on the needs of your practice:

- Mounted on a mobile stand (Figure 5, page 13)
- Mounted in a hard shell case (Figure 6, page 14)
- Mounted on an IV pole (Figure 7, page 14)

The components you receive will vary depending on which configuration was specified. To verify that you have received all the necessary components, refer to the packing list included with your system or refer to the appropriate illustration on pages 13 - 14.

If any of the components are missing or damaged, notify the carrier and Verathon Medical® Customer Care immediately at

- 800.331.2313 (Canada and US)
- 425.867.1348 (International)
- +31.30.68.70.570 (Europe)

For additional contact information, please see page 44.

Preparing for Use

Prior to using the GlideScope® Video Laryngoscope for the first time, perform the following steps:

1. Charge the Battery (see below)
2. Assemble your GVL® preferred configuration (instructions begin on page 13).
3. Perform a Functional Check (instructions begin on page 22).

1. Charge the Monitor Battery

Important:

- The battery must be fully charged before first use.
- The unit will not operate while charging. If the GlideScope® is switched on during charging, the charging light will flash alternatively green and red-orange.
- When the battery is low, the battery indicator LED will flash green for approximately 5 minutes. When the battery is nearly empty, the battery indicator LED will flash green and beep. This indicates that the unit has approximately one minute of power remaining.
- The Monitor battery should be charged in ambient temperatures between 32°F (0°C) and 104°F (40°C).

Charging the battery:

NOTE: If the AC power cord is inserted before the power switch is in the ON position, the charge status LED will flash orange. To re-establish normal charging:

- Remove the AC power cord.
- Turn the power switch to the OFF position.
- Turn the power switch back to the ON position and replace the power cord directed above.

1. Ensure that the power switch is in the ON (right hand) position (Figure 2).
2. Plug the Monitor into an AC power source:

- Insert the male end of the power cord into an appropriate power source.

NOTE: For compatibility details refer to the label on the back of the Monitor.

- Insert the female end of the power cord into the port on the back of the Monitor (Figure 3).

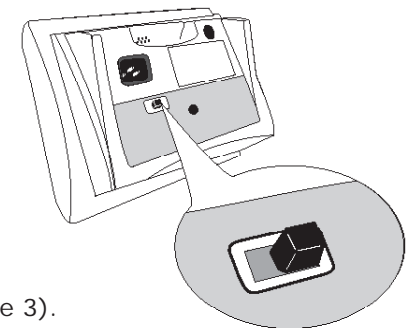
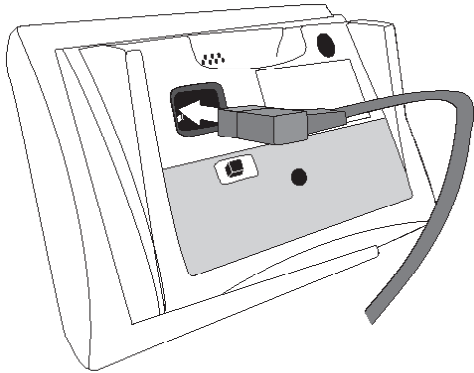


Figure 2. Power switch in the ON position.

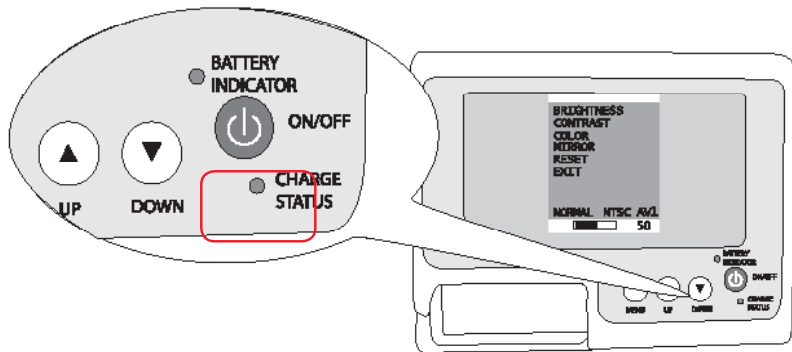
Figure 3. AC power connector on Monitor rear panel.



Attaching the AC power cord will cause the charge status LED to turn orange, indicating that the recharging cycle has begun.

3. When charging is complete, the status LED will turn green. At this point the unit is fully functional on battery power.

Figure 4. The Charge Status LED will turn green when the battery is fully charged.



NOTE: For more information about battery charge status LEDs, refer to "Front Panel LEDs" on pages 25-26.

2. Assemble Your Preferred GVL® Configuration

The following illustrations show each of the GlideScope® system configurations and their components.

Figure 5. GlideScope® System with Mobile Stand

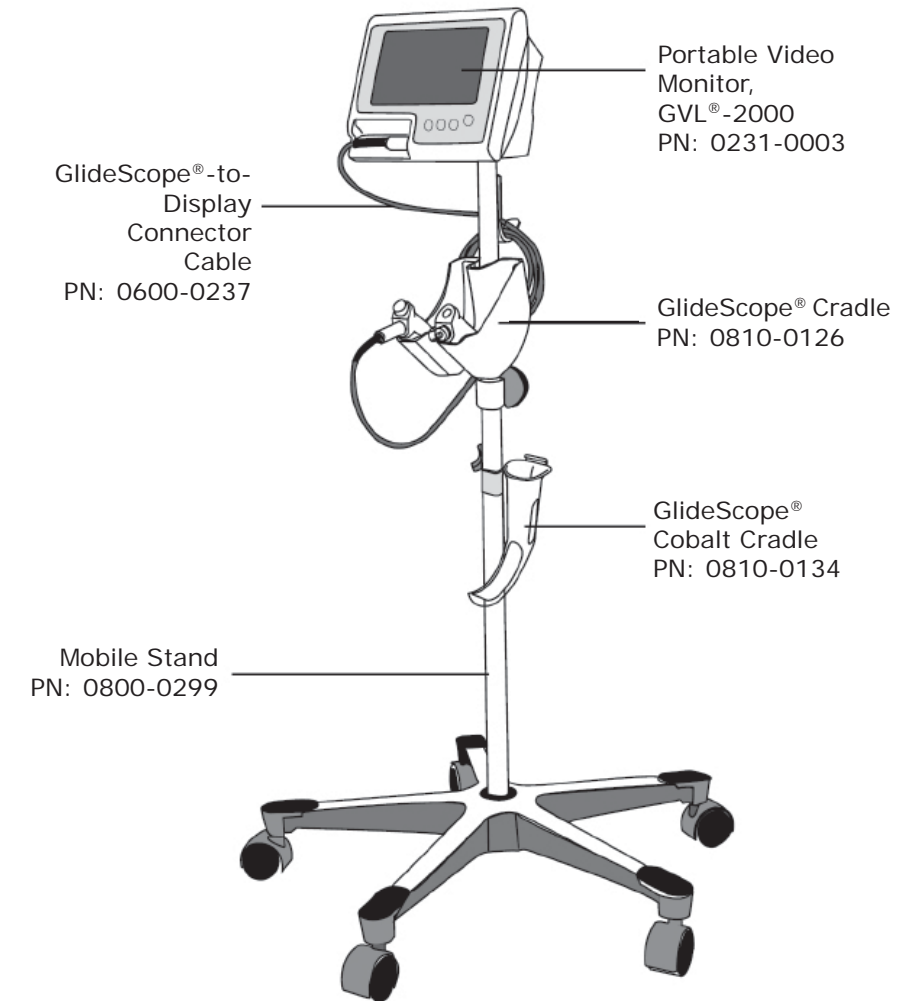


Figure 6. GlideScope® System in Hard Shell Case

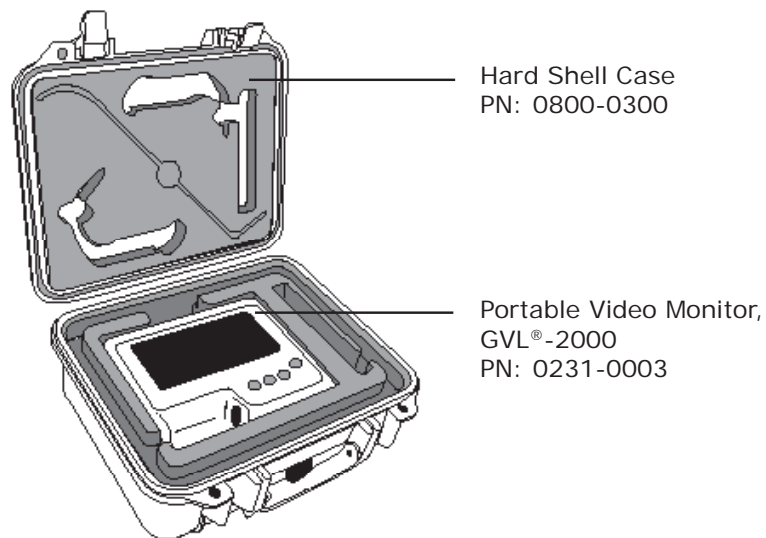
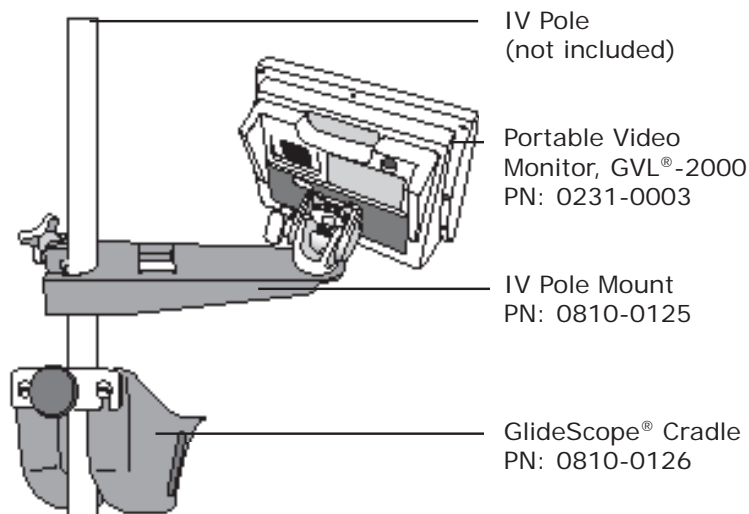
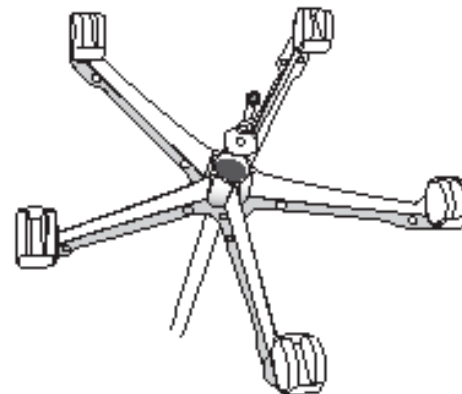


Figure 7. GlideScope® System on IV Pole Mount



Mobile Stand Assembly

Figure 8. Attaching the mobile stand base to the center pole - hardware stack-up.



Attaching the Center Pole to the Base

1. With an adjustable wrench, remove the hex bolt and washers from the bottom of the pole.
2. Insert the bottom end of the pole into the top of the base.
3. Flip the base over and screw the bolt and washers back into place to secure the pole to the base. To keep the pole from wobbling, be sure to tighten the bolt securely.

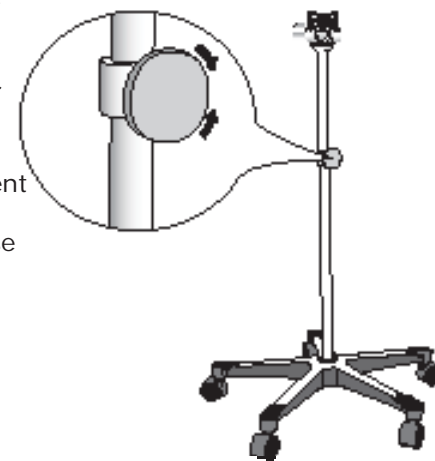
NOTE: The wheels of the mobile stand may be removed for easier storage. To remove the wheels, refer to the instructions on page 38.

Parts shown in this view: Mobile stand, 0800-0299

Adjusting the Height of the Mobile Stand

Figure 9. Adjusting the height of the mobile stand

1. Loosen the black height adjustment knob located on the mobile stand pole by turning it counterclockwise
2. Raise or lower the pole to the desired height.
3. Secure the pole in position by turning the height adjustment knob clockwise.



Parts shown in this view: Mobile stand, 0800-0299

Attaching the Monitor to the Mobile Stand or IV Pole Mount

To attach the Monitor to the mobile stand or IV pole:

Hold the Monitor against the screw on the tilt head and turn the tilt head fastener clockwise to tighten (Figure 10).

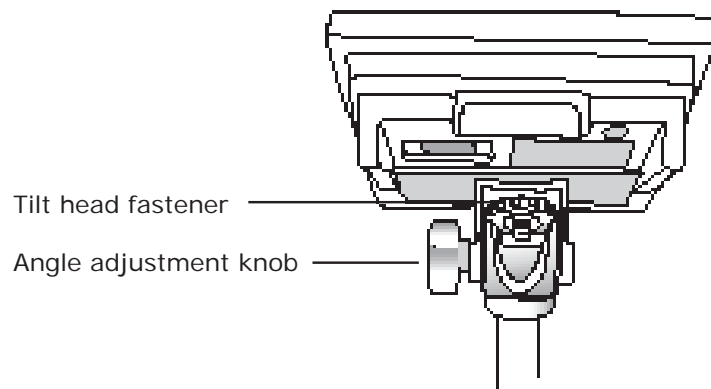
Adjusting the Monitor

The angle of the Monitor should be adjusted for optimal viewing before use. The ideal angle will be determined by the working position of the Monitor and the user.

To adjust the angle of the Monitor:

1. Loosen the angle adjustment knob located on the tilt head of the IV pole mount or mobile stand by turning it counterclockwise.
2. Tilt the Monitor as desired.
3. Secure the Monitor in place by turning the angle adjustment knob clockwise (Figure 10).

Figure 10. Attaching the Monitor to the mobile stand or IV pole mount.



Parts shown in this view:

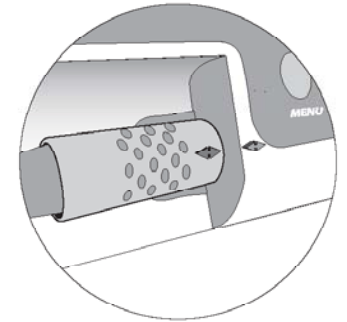
Portable Video Monitor, GVL®-2000, 0231-0003
 Mobile Stand (or the following), 0800-0299
 IV Pole Mount, 0810-0125

Attaching the GlideScope® to the Monitor

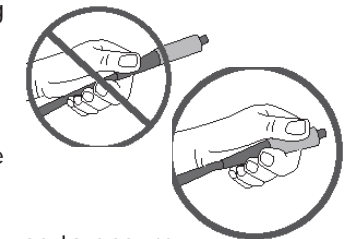
Figure 11. Attaching the GlideScope® to the Monitor.

To attach the Large, Mid-Size, and Small GlideScope® to the Monitor:

1. Insert the cable into the connector port located on the face of the Monitor so that the arrows on the cable and the Monitor are aligned (Figure 11).



NOTE: When connecting and disconnecting the connector cable, grasp the cable by the gray sleeve.

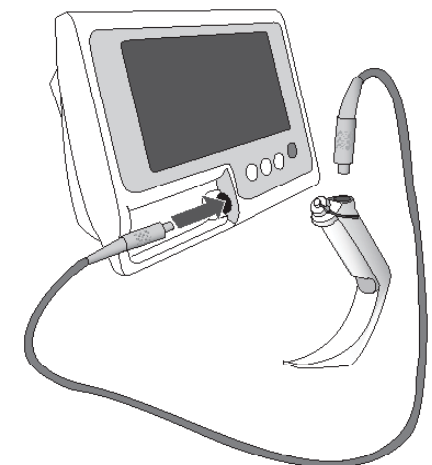


2. Insert the other end of the connector cable into the port located on the handle of the GlideScope® (Figure 12)
3. Visually inspect the GlideScope® prior to use to ensure that all endoscopic components are free of unintended rough surfaces, sharp edges, protrusions, or cracks.

Figure 12. Attaching the connector cable to the GlideScope GVL®.

Parts shown in this view:

Portable Video Monitor, GVL®-2000, 0231-0003
 GlideScope® Connector Cable, 0600-0237



Assembling the GlideScope® Cobalt and Attaching the GlideScope® Cobalt Video Baton to the Monitor

To attach GlideScope® Cobalt to the Monitor:

1. Insert the GlideScope® Cobalt Video Baton cable into the port located on the face of the Monitor so that the arrows on the cable and the Monitor are aligned as shown in Figure 11.

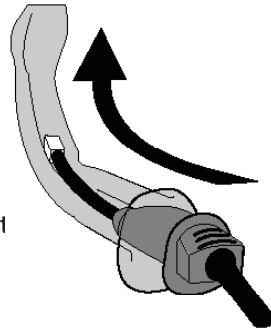


Figure 13. Inserting the GlideScope® Cobalt Video Baton into the single use GVL® Stat.

NOTE: When connecting and disconnecting the cable, grasp the cable by the gray sleeve (Figure 11).

2. Insert the GlideScope® Cobalt Video Baton into the sterile, single use GVL® Stat until it clicks into place (Figure 13).

Ensure proper insertion by matching the wide “collar” of the Video Baton to the wide “collar” of the GVL® Stat; or match the GlideScope® logo on the side of the Video Baton with GlideScope® logo on the side of the GVL® Stat.

Figure 14. Properly inserting the Video Baton into the GVL® Stat



Be sure not to insert the Video Baton backward (Figure 15). If the Video Baton does become stuck, insert a tongue depressor into the GVL® Stat shell to release the camera.

Figure 15. Take care to not insert the Video Baton backward.

3. Visually inspect the GlideScope® prior to use to ensure that all endoscopic components are free of unintended rough surfaces, sharp edges, protrusions, or cracks.



Parts shown in this view:

Portable Video Monitor: GVL®-2000, 0231-0003, GlideScope® Connector Cable: 0600-0237, GlideScope® Cobalt Video Baton: 0570-0185, GVL® Stat Large (Box of 12): 0270- 0383, GVL® Stat Small (Box of 12): 0270- 0384

Detaching the GlideScope® Cobalt Video Baton From the GVL® Stat

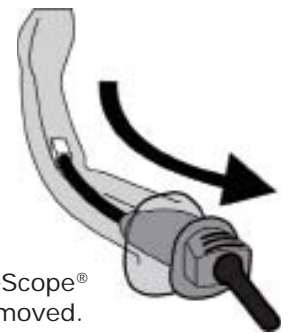
The GVL® Stat should be removed from the GlideScope® Cobalt Video Baton after each use and disposed of properly. The GVL® Stat is designed to break away from the GlideScope® Cobalt Video Baton to prevent reuse.

To detach the GlideScope® Cobalt Video Baton from the GVL® Stat:

1. Grasp the base of the Baton and pull firmly (Figure 16).

Figure 16. Detaching the Video Baton from the GVL® Stat

2. You will hear a click as the Video Baton detaches, and a small plastic piece will snap from the inside of the GVL® Stat. This is normal and does not affect the function of the Video Baton. The locking mechanism on the inside of the GVL® Stat will break away with an audible snap, indicating that the GlideScope® Cobalt Video Baton can now be completely removed.



IMPORTANT! A used GVL® Stat is a biohazard and should be disposed of in a manner consistent with local directive’s in the user’s jurisdiction.

Attaching the GVL® Cradle

To attach the GVL® cradle to the mobile stand:

1. Assemble the mobile stand as described on page 20.

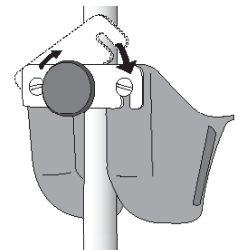


Figure 17a. Attaching the GVL® cradle to the mobile stand.

2. Open the cradle latch and position the mobile stand pole on the back of the cradle.
3. Close the cradle latch and tighten in place by turning the black cradle adjustment knob clockwise (Figure 17).

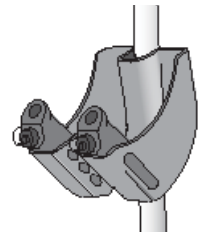


Figure 17b. The GlideScope® GVL® in the cradle bays.

4. The GlideScope® GVL® may now be placed in the cradle.

For GVL® cradle cleaning instructions, see page 36.

Parts shown in this view: GVL® Cradle: 0810-0126, Mobile Stand: 0800-0299

Attaching the GlideScope® Cobalt Cradle

To attach the GlideScope® Cobalt cradle to the GVL® cradle:

1. Attach the GVL® cradle as shown on the previous page.
2. Hook the GlideScope® Cobalt cradle into the GVL® cradle as shown in Figure 18.

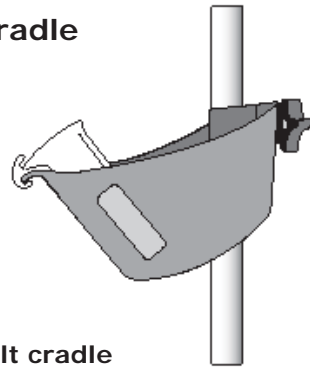


Figure 18. Attaching the GlideScope® Cobalt cradle to the GVL® cradle.

Parts shown in this view: GlideScope® Cradle: 0810-0126, Mobile Stand: 0800-0299
GlideScope® Cobalt Cradle: 0810-0134

To attach the GlideScope® Cobalt cradle to the mobile stand:

1. Assemble the mobile stand as described on page 14.
2. Attach the mobile stand clamp to the GlideScope® Cobalt cradle with a Phillips screw driver as shown in Figure 19.
3. Attach the GlideScope® Cobalt cradle to the mobile stand pole as shown in Figure 19 and turn the black knob clockwise to tighten.

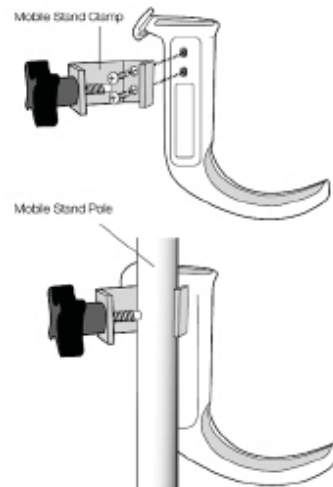


Figure 19. Attaching the GlideScope® Cobalt cradle to the mobile stand.

Parts shown in Figure 19: GlideScope® Cobalt Cradle: 0810-0134,
Mobile Stand: 0800-0299

Using the Hard Shell Case

The hard shell case comes with a custom foam insert designed to protect the Monitor. When the Monitor is not attached to the mobile stand or IV pole mount, it should be used with the foam insert for maximum protection of the unit.

Removing the Monitor From the Hard Shell Case

To remove the Monitor from the hard shell case:

1. Grasp the Monitor handle and pull the Monitor and foam out of the hard shell case.
2. On the back of the foam insert, unscrew the Monitor using a Phillips screwdriver (Figure 20)

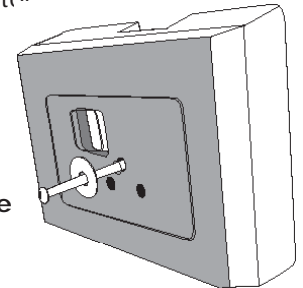


Figure 20. Removing the Monitor from the hard shell case.

Parts shown in Figure 20: Portable Video Monitor GVL® 2000: 0231-0003

Connecting a Video Output Cable

The GlideScope® system may be connected to an NTSC-compatible external device such as a TV screen or video recorder by using a video output cable. This cable is an optional accessory and is not included with your GlideScope® system. Please contact your Verathon Medical® Sales Representative for more information.

To connect the video output cable:

1. Insert the cable into the port on the back of the Monitor.
2. Connect the opposite end of the cable to the external viewing device.

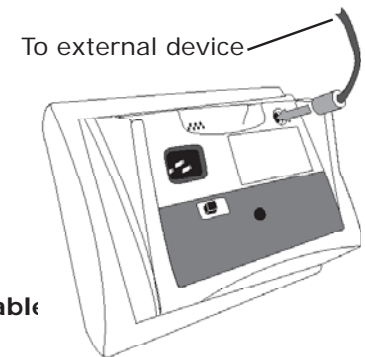


Figure 21. Attaching a video output cable

3. Perform a Functional Check

A functional check should be performed prior to first use. Please contact your Verathon Medical® Customer Care representative if your GlideScope® system does not function as described below.

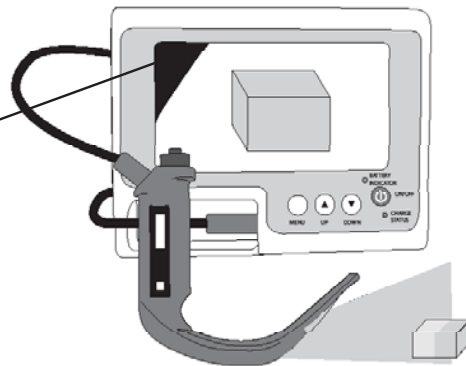
To perform a functional check of the GlideScope® Video Laryngoscope:

1. Fully charge the Monitor battery (see page 11).
2. Connect the GlideScope® to the Monitor (see page 17).
3. Turn the unit on by pressing the ON/OFF button located on the face of the Monitor.
4. Observe the Monitor screen to verify that an image is being received from the GlideScope® (Figure 22).

Note: The upper left corner of the LCD screen will display a small portion of the GlideScope® blade (Figure 22). The blade is seen in the view due to the wide-angle properties of the camera lens. This opaque portion acts as a frame of reference during the intubation process and assures that the orientation of the image is correct in the Monitor.

Figure 22. When the power is on, one corner of the GlideScope® blade is visible in the display.

Portion of GlideScope® blade (frame of reference)



Powering the GlideScope System

The GlideScope® system can be operated either by battery power or AC power.

The Monitor contains a lithium polymer battery that provides power to the GlideScope®. Under normal conditions, the battery will last approximately 90 minutes before it needs recharging.

IMPORTANT! The battery needs to be fully charged before first use. For instructions on charging the battery, see “Charge the Battery” on page 11.

To supply power to the unit:

1. Ensure that the power switch on the back of the unit is in the ON position (to the right, Figure 2, page 11).
2. Press the ON/OFF button on the face of the Monitor. (See page 24 for more information about Monitor controls.)

Supplying Power Using the AC Power Cord

To supply power using the AC power cord:

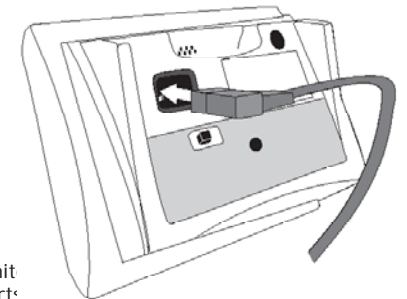
1. Ensure that the power switch is in the ON position (Figure 2, page 11).
2. Insert the male end of the power cord into an appropriate power source.

NOTE: For compatibility details refer to the label on the back of the Monitor.

3. Insert the female end of the power cord into the port on the back of the Monitor (Figure 23).
4. Press the ON/OFF button on the face of the Monitor. (See page 24 for more information about Monitor controls.)

NOTE: If the system is being used with the mobile stand, wrap the power cord around the height adjustment knob and the cord hook for neat storage.

Figure 23. Connect the Portable Video Monitor to AC power to charge the battery.



Parts shown in this view: Portable Video Monitor GVL® 2000: 0231-0003, AC Power Cord: See Part List, page 66 for power cord options

Monitor Features

Display and Front Panel Buttons

There are four buttons on the face of the Monitor: MENU, UP, DOWN, and ON/OFF (Figure 24). Functions are described in the following table.

Figure 24. Monitor front panel buttons.

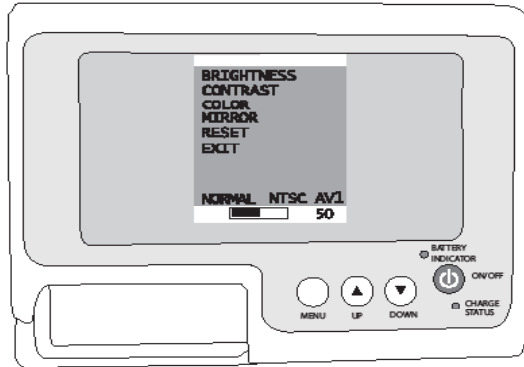






Table 1. Monitor Front Panel Buttons

Button	Function
	Activates/deactivates the system.
	Press to move between menu options or to increase/decrease setting values.
	
	When the MENU button is pressed repeatedly, it enables the user to select among various display options. A menu item is selected (active) when highlighted in yellow. Display settings include:

- **Brightness:** Controls the luminosity of the screen. When BRIGHTNESS is highlighted, press UP/DOWN to increase/decrease luminosity. A brightness setting of 18 - 20 units is recommended.
- **Contrast:** Controls the degree of differentiation between light and dark tones of the image on the screen. When CONTRAST is highlighted, press UP/DOWN to increase/decrease contrast. A contrast setting of 16 - 20 units is recommended.
- **Color:** Controls the saturation of colors displayed on the screen. When COLOR is highlighted, press UP/DOWN to increase/decrease saturation. The default setting of 50 units (on a scale of 0 - 100 units) is recommended.
- **Mirror:** When MIRROR is highlighted, press UP to display a mirror image of the displayed image. Press DOWN to return to the original view. UP to display a mirror image of the displayed image. Press DOWN to return to the original view.
- **Reset:** When RESET is highlighted, press either UP or DOWN to return all setting to the factory defaults. UP to display a mirror image of the displayed image. Press DOWN to return to the original view.
- **Exit:** When EXIT is highlighted, press either UP or DOWN to save all settings and return to the viewing screen.
- **Normal:** NTSC, AV1: These three items display the format and channel of the signal that is being received from the GlideScope®. Since all GlideScope® cameras use the NTSC format, these settings will not change.

NOTE: Volume and Mute controls may appear on some monitor screens. These features are currently inactive and changing the settings on these features will not have any effect on the display.

Front Panel LEDs

The front panel has two status LEDs that indicate battery and charge states.

Front panel LEDs are illustrated in Figure 25 and explained in Table 2, page 26.

Figure 25. Front panel LEDs indicate battery charge status.

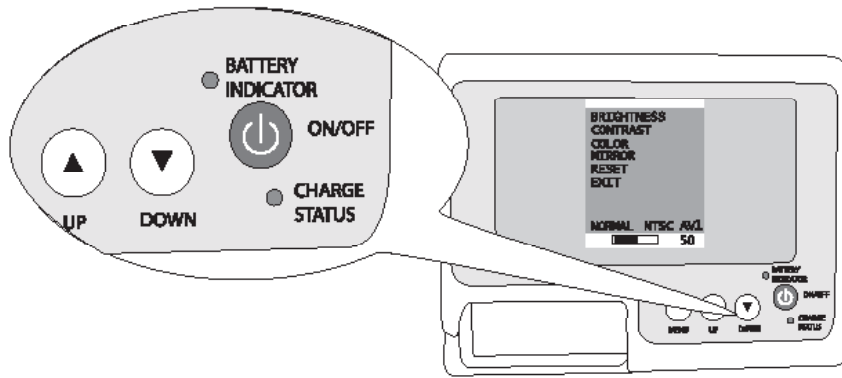


Table 2. Battery and Charge Status LED Indicators

Indicator	Meaning
Steady green	Battery is fully charged.
Flashing green	Battery power is low and needs charging. LED flashes for approximately 5 minutes before shutting off.
Flashing green with beeping	There is approximately one more minute of battery power remaining.
No LED	The battery is completely depleted and needs to be recharged.
Flashing orange	Flashing orange can indicate two states: <ul style="list-style-type: none"> If the AC power is NOT connected and the charge status LED flashes orange, there is a battery malfunction. Please consult your Verathon Medical® representative.
Steady orange	Charging in progress.

4. Using the GlideScope®

Intended Use

The GlideScope® Video Laryngoscope is intended for use by qualified medical professionals to obtain a clear, unobstructed view of the vocal cords for medical procedures.

The GlideScope® Video Laryngoscope may be useful for the following procedures:

- First use intubations, replacing DL.
- Normal or restricted oropharyngeal views.
- Cormack-Lehane grades I - IV laryngeal views.
- Trauma airways – excellent when dealing with blood and secretions in the airway.
- Airway management in morbidly obese patients.
- Cervical spine immobilization.
- Reintubation in the ICU setting.
- Supervision and documentation of the laryngoscopy.
- Nasal tracheal intubation.
- Insertion of transesophageal echocardiatic probes.
- Laryngoscopic foreign body removal.
- Visualization and assessment of the oropharynx.
- Awake intubation for difficult airway management.
- Insertion of double lumen tubes.

Clinical Application Tips

The Ron Walls Technique ²

1. First look at the mouth directly when introducing the GlideScope® into the midline of the oral cavity.
2. Then look at the Monitor and elevate the tip of the blade to see the epiglottis and the glottic opening.
3. Next look at the mouth to carefully guide the tube and stylet into position near the tip of the laryngoscope.
4. Then look back at the Monitor to complete the intubation under direct vision.

Tips on Inserting the GlideScope®

- Verathon® recommends that all new users practice using the GlideScope® on a mannequin before clinical use.
- Verathon® recommends that new GlideScope® users acquire clinical experience on patients without airway abnormalities.
- Verathon® recommends inserting the GlideScope® down the midline of the tongue.
- If the GlideScope® is inserted down the right side of the tongue there may not be sufficient room for the endotracheal tube
 - Inserting the GlideScope® down the left side of the tongue may compromise the LED lighting.
- The GlideScope® may be pulled back approx. 1/2 inch (1 - 2 cm) during the insertion of the endotracheal tube to straighten the approach. In most cases, placement of the GlideScope® blade should be in the vallecula with gentle elevation to achieve laryngeal exposure.
- The GlideScope® requires significantly less force than direct laryngoscopy. Intubations using the GlideScope® require approximately 1.1 - 3.3 lb (0.5 - 1.5 kg) of force.
- The GlideScope® Video Laryngoscope has a breakage strength in excess of 25 lb (11 kg).

NOTE: Typical procedures using the GlideScope® should take less than one minute. If the GlideScope® is left in a static position inside a patient for an extended period of time there is a theoretical risk of damage to the tissues as the glass window will be hotter than 41°C (106°F). The GlideScope® must be removed after the intubation is completed.

Ref. 1. Ron M. Walls, M.D., Chairman - Department of Emergency Medicine, Brigham and Woman's Hospital, Professor of Medicine (Emergency Medicine), Harvard Medical School.

Tips on Advancing the Endotracheal Tube

New GlideScope® users often achieve an excellent view with the GlideScope® but may experience some difficulty advancing the endotracheal tube. This may be caused by two factors:

- **Excessive lifting or pushing of the glottis by the GlideScope® blade.**
Maximum laryngeal exposure may not facilitate intubation; reducing the elevation applied to the laryngoscope may make inserting the endotracheal tube easier.
- **Angulation of the tip of the endotracheal tube.**
A GlideScope® Rigid Stylet (PN 0803-0009) that is designed to complement the angulation of the GlideScope® blade is now available. The GlideRite™ (PN 0830-0075) endotracheal tube soft tip technology may make passage of the endotracheal tube easier and less traumatic (Figure 26). Please contact a Verathon Medical® representative for more information.

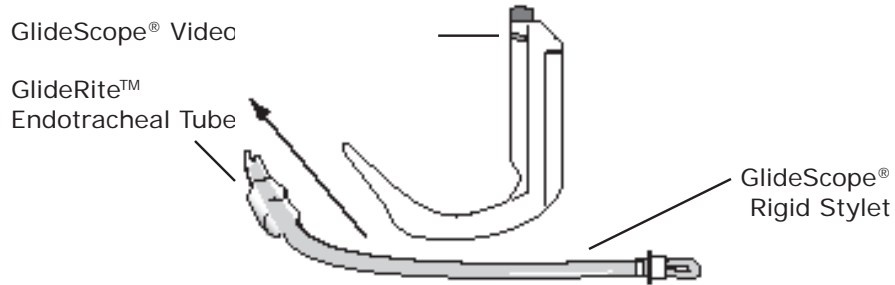
If using a malleable stylet, we recommend bending the tip of the stylet to at least 90° to complement the angle of the GlideScope® blade. An angle that is larger than 90° may make it difficult for some users to advance the endotracheal tube.

Other methods of configuring the stylet have been developed by GlideScope® users worldwide and have proven to be effective.

For more information on alternative methods of stylet configuration, please contact your Verathon Medical® Customer Care:

- 1.800.331.2313 (North America)
- 1.425.867.1348 (International)
- +31.30.68.70.570 (Europe)

Figure 26. GlideScope® Video Laryngoscope with GlideScope® Rigid Stylet, and GlideRite™ Endotracheal Tube



Inserting the GlideScope®

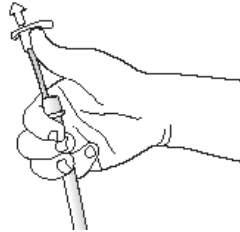
1. Bend the proximal tip of the stylet.

If using a malleable stylet, the proximal tip of the stylet may be bent backward to permit one-handed operation of the endotracheal tube.

Figure 27. The malleable stylet allows one-handed operation when configured to operate like the Rigid Stylet seen below.

GlideScope® Rigid Stylet
PN 0803-0009

The GlideScope® Rigid Stylet is already designed to be used in this manner, as shown in Figure 27.



2. Introduce the endotracheal tube.

The endotracheal tube should be introduced behind or immediately adjacent to the GlideScope® blade. The proximal end of the endotracheal tube should be carefully introduced between the vocal folds. The GlideScope® Rigid Stylet should not pass into the larynx during intubation. The operator should take care not to damage the cuff, teeth or oropharynx during insertion.

3. Withdraw the stylet 2" (5 cm).

Using the right hand, advance the endotracheal tube while simultaneously withdrawing the stylet with the thumb. The stylet should be withdrawn approximately 2" (5 cm). This straightens the tip of the endotracheal tube and permits it to enter the larynx while the stylet continues to provide rigidity to the body of the endotracheal tube.

5. Cleaning and Maintenance

General Maintenance Information

While the GlideScope® Video Laryngoscope has been designed and manufactured to high industry standards, it is recommended that periodic inspection be performed to ensure continued safe and effective operation. It is recommended that a qualified technician perform a full visual inspection of all components at least every 3 months.

The technician should check for the following items:

- External damage
- Damage to the Medical Power Supply
- Connectors and cable insulation integrity

To ensure patient safety, users should perform a routine inspection of the GlideScope® Video Laryngoscope before every use to ensure that all endoscopic components are free of unintended rough surfaces, sharp edges, protrusions or cracks.

If inspection reveals any faults in the components, contact Verathon Medical® Customer Care. All repairs are to be done by an authorized representative of Verathon Medical®.

Cleaning the GlideScope® Video Laryngoscope



Caution. Risk of permanent equipment damage. Do not expose the GlideScope® Video Laryngoscopes to temperatures above 60°C (140°F). Do not disinfect or sterilize the GlideScope® Video Laryngoscopes using devices such as autoclaves, ultrasonic cleaners, or pasteurizers. Use of such methods to disinfect/sterilize the GlideScope® will cause permanent device damage and void the warranty. Refer to pages 32-36 for approved cleaning procedures and products.

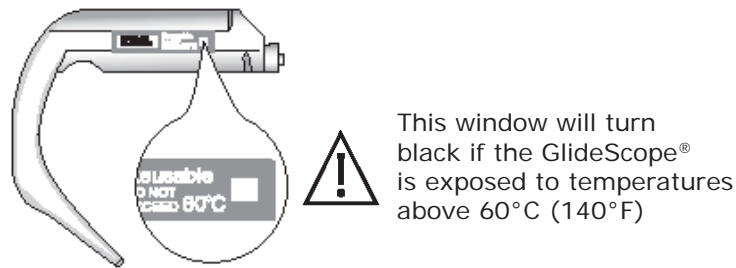
The GlideScope® Video Laryngoscopes are non-sterile devices and must be properly cleaned before use. To avoid cross-contamination, the GlideScope® Video Laryngoscopes must be cleaned immediately after each use.

- Please contact your Sales Representative to determine the suitability of any methods not listed in this manual.
- Do not place the GlideScope® in the cradle until all cleaning procedures have been completed.

During cleaning, take care to avoid overheating. Monitor the color of the temperature gauge to avoid overheating the GlideScope®.

■	8	The temperature indicator will turn completely black if the device is heated above 60°C (140°F). A gray indicator does not indicate overheating.
■	3	
□	3	

Figure 28. Monitor the color of temperature gauge to avoid overheating the GlideScope®



Cleaning the Large, Mid-Size, and Small GlideScope®

The Large, Mid-Size, and Small GlideScope® Video Laryngoscopes must be cleaned immediately after each use. Do not place the Large, Mid-Size, or Small GlideScope® in the GVL® cradle until all cleaning procedures have been completed.

Caution: Risk of equipment damage. Failure to cover the cable connector port with the protective cap prior to cleaning may result in water ingress and potential device failure.

To clean the Large, Mid-Size and Small GlideScope®:

1. Disconnect the GlideScope® from the connector cable.
2. Insert the protective cap into the connector cable port to protect the electronic connector as shown in Figure 29.
3. Wash the GlideScope® manually with a detergent such as Manu-Klenz® or an enzymatic debridement agent such as Medzyme to remove all foreign material from the surface of the device. This allows the active ingredients of the chosen process to reach all of the surfaces of the device.
4. Use a disinfection process approved by the FDA, Health Canada, or other international standards. Consult the list of approved disinfection methods beginning on page 52 or contact your Verathon Medical® Customer Care representative for more information.

Figure 29. Place the protective cap over the connector cable port before cleaning the GlideScope®.



Cleaning the GlideScope® Cobalt Video Baton

The GlideScope® Cobalt Video Baton may be wiped with 70% isopropyl alcohol solution between uses and may be placed in the GlideScope® Cobalt cradle after the GVL® Stat has been removed.

Caution: Risk of equipment damage. Do not use Bleach on the GlideScope® Cobalt Video Baton; the bleach will corrode the stainless steel inserts.

When required, the GlideScope® Cobalt Video Baton can be put through a full cleaning process as described on page 34.

To clean the GlideScope® Cobalt Video Baton:

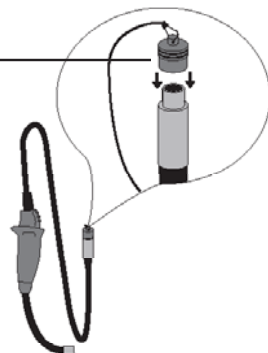
1. Detach the GVL® Stat from the GlideScope® Cobalt Video Baton as described on page 19.

NOTE: A used GVL® Stat is a biohazard and should be disposed of in a manner consistent with local directives in the user's jurisdiction.

2. Disconnect the GlideScope® Cobalt Video Baton from the Monitor.
3. Place the protective cleaning cap over the connector as shown in Figure 30.

Figure 30. Place the protective cleaning cap over the connector as shown.

Protective cleaning cap



4. Wash the GlideScope® Cobalt Video Baton manually with a detergent such as Manu-Klenz® or an enzymatic debridement agent such as Medzyme to remove all foreign material from the surface of the device. This allows the active ingredients of the chosen process to reach all of the surface elements of the device.
5. Use a high-level disinfection process approved by the FDA, Health Canada or other international standards. Consult the list of approved sterilization methods below or contact your Verathon Medical® representative for further information.

Approved Disinfection Methods

NOTE: Read and comply with product use instructions in all applications.

The following high-level disinfectants are approved for use:

Cidex® or Cidex® OPA

The CIDEX OPA preparation requires 12 minutes of immersion to provide high-level protection suitable for laryngoscopes. Immerse the GlideScope® in Cidex® OPA or Cidex® Standard for 12 minutes to complete the requirement. Following disinfection, rinse with sterilized water.

Steris® System 1®

Approved for Large, Mid-Size, and Small GlideScope® Video Laryngoscopes and the GlideScope® Cobalt Video Baton.

Place the GlideScope® in the Steris System 1 machine and begin the cleaning cycle as instructed by Steris. After removal, the GlideScope® should be kept in a clean environment.

NOTE: Steris systems that use steam should NOT be used to sterilize the GlideScope® Video Laryngoscope.

Sterrad®

Approved for Large, Mid-Size, and Small GlideScope® Video Laryngoscopes and the GlideScope® Cobalt Video Baton.

Dry the GlideScope® completely after initial cleaning. Place Sterrad chemical indicator tape over GlideScope® cap and place in a Sterrad sealing bag. Place bag containing GlideScope® in the Sterrad machine and begin the cleaning cycle according to the directions provided by Sterrad.

MetriCide®

Approved for Large, Mid-Size, and Small GlideScope® Video Laryngoscopes and the GlideScope® Cobalt Video Baton.

Immerse the GlideScope® in MetriCide for 20 minutes to complete the requirement. Rinse with sterilized water. After cleaning, thoroughly dry the blade with a clean towel (paper or cloth).



Caution: Risk of equipment damage. Do not use bleach on the GlideScope® Cobalt Video Baton; the bleach will corrode the stainless steel inserts.

Please contact your Verathon Medical® Customer Care representative to verify the suitability of any products or methods not included in this list.

Cleaning the Monitor and Cradle

Clean the exterior of the Monitor and the cradle with IPA (70% isopropyl alcohol solution) wipes.

Cleaning the GVL® and GlideScope® Cobalt Cradle

Wipe the cradle with a standard hospital-grade surface cleaning product.

Cleaning the GlideScope® Rigid Stylet

1. Remove any debris by wiping with disposable cloth or rinsing and brushing.
2. Using a brush, apply detergent such as Manu-Klenz® or an enzymatic debridement agent such as Medzyme to all surfaces.

NOTE: Do not clean in chlorine solution. Stainless steel does not resist chlorine in high concentrations.

3. Rinse under clean, running water for 1 minute.
4. Disinfect the GlideScope® Rigid Stylet by using one of the following approved products and methods:
 - Autoclave
 - Cidex®
 - Steris®
 - Sterrad®
 - MetriCide®

Products and methods mentioned above should be used according to manufacturer's specifications.

Replacing the Monitor Battery

Under normal operating conditions, the battery's projected life is 2 - 3 years; the expected number of charge/discharge cycles is approximately 500 cycles.

In case of battery malfunction, do not attempt to replace the Monitor battery. **Any attempts to replace the battery by unauthorized service technicians will void the system warranty.** Please contact your Verathon Medical® representative for more information on battery replacement.

Replacing the O-Rings

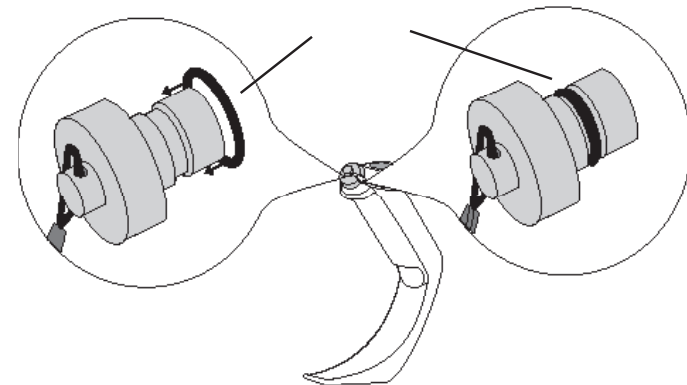
The protective cap attached to the top of the GlideScope® contains a rubber O-ring that ensures an effective seal during the cleaning and sterilization process. General use will wear down the O-ring over time. Replace the O-rings immediately if:

- Any damage is visible.
- There is any liquid in the cable connector port after cleaning.

To replace an O-ring:

1. Remove the protective cap from the GlideScope® port.
2. On the inside of the protective cap, pick the O-ring out of the groove located at the base of the cap.
3. Stretch the replacement O-ring around the base of the cap and insert it into the groove (Figure 31). Make sure it is seated securely in the groove. Take care not to damage the O-ring during insertion.

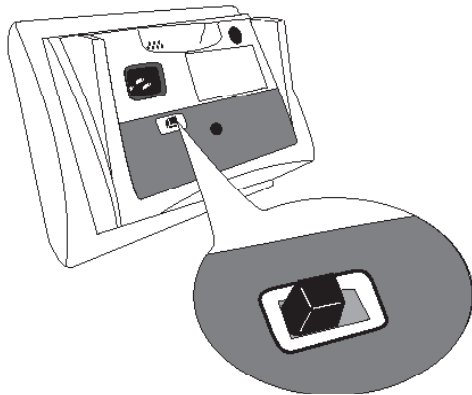
Figure 31. Replacing the O-Rings



Transportation and Storage

The GlideScope® can be safely used and stored under the following environmental conditions:

- Relative humidity range of 10 - 90%.
- Storage temperature range of 32°F (0°C) to 113°F (45°C).



ANT: The power switch in the OFF (left side) position during shipping and storage.

Removing the Mobile Stand Wheels

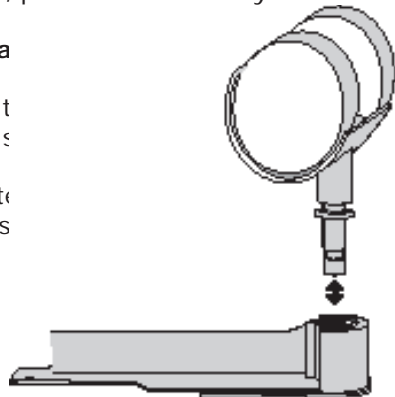
The mobile stand wheels may be removed to facilitate storage and transportation.

To remove the mobile stand wheels:

Using steady, moderate force, pull the wheels away from the base.

To reinsert the mobile stand wheels:

1. Insert the wheel pin into the hole on the end of the mobile stand.
2. Applying steady, moderate force, push the wheel pin into the base until the wheels are in place.



Replacement Parts

To obtain additional information regarding your GlideScope® Video Laryngoscope System, please contact Verathon Medical® Customer Care at:

Verathon Medical® Customer Care Contact Information

Corporate HQ: (US and Canada)

Verathon Inc.
21222 30th Drive SE, Suite 120
Bothell, WA 98021
USA
800.331.2313 (Canada and US)
425.867.1348
Fax: 425.883.2896
<http://www.verathon.com>

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Fax: +31.30.68.70.512
<http://www.verathon.eu/>

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Verathon Medical (France) Sarl

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67300 Schiltigheim
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+33.03.88.60.14.12
Fax: +33.03.88.60.46.87

Postal Address:

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France

Verathon Medical (United Kingdom) Ltd.

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Aston Sandford, Aylesbury
Buckinghamshire, HP17 8JB
United Kingdom
+44.1844.299.207
Fax: +44.1844.299.218
<http://www.verathon.co.uk/>

Verathon Medical (Japan) K.K.

Executive Tower Azabudai 7F
1-4-3 Azabudai
Minato-ku
Tokyo, Japan 106-0041
+81.03.3560.3501
Fax: +81.03.3560.3502

Manufacturer

Verathon Medical (Canada) ULC

4224 Manor Street
Burnaby, BC V5G 1B2
Canada
604.439.3009
Fax: 604.439.3039

Device Disposal

Disposal of this device can be coordinated through your Verathon Medical® Service Center in accordance with WEEE requirements.

6. Specifications

Verathon® reserves the right to change product specifications without notice.

General Specifications

Classification:	Electrical Class I, Applied Part BF
Line Voltage	Range: 100–240 VAC, 50 & 60 Hz
Line Current:	MAX 0.50 A
Power Plug:	Hospital Grade
Line Protection:	2A Fuse, Internal

Operating and Storage Conditions:

Operating (soak):	14°F (-10°C) to 113°F (45°C)
Storage:	32°F (0°C) to 113°F (45°C)
Water / Splash Resistant:	Category 2
Pollution Degree:	2

GlideScope® Components

Portable Video Monitor, GVL®-2000:

NTSC Color Video	320 x 240 pixel 7" LCD TFT Panel
Height:	6.5" (167 mm)
Width:	8.0" (207 mm)
Depth:	3.25" (83 mm)
Weight:	3.22 lb (1.45 kg)

Mobile Stand:

Base height:	4.75" (12 cm)
Base weight:	4.6 lbs (2.1 kg)
Base diameter:	24" (75 cm)
Pole height range:	Max 47" (119 cm), Min 29.5" (75 cm)
Pole weight:	3.2 lbs (1.5 kg)

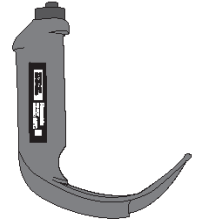
IV Pole Mount:

Weight:	2 lbs (1 kg)
Arm Length:	11" (28 cm)
Width:	2.5" (6.5 cm)

GVL®

Large:

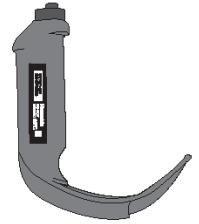
Tip to front of handle:	101.0 mm
Thickness (height) at camera pod:	14.0 mm
Width of camera pod:	27.0 mm
Blade length in front of camera pod:	58.0 mm
Max blade width in front of camera:	26.0 mm



GVL®

Mid-Size:

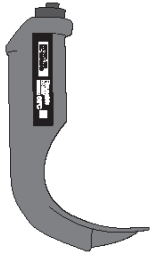
Tip to front of handle:	82.0 mm
Thickness (height) at camera pod:	14.5 mm
Width of camera pod:	17.0 mm
Blade length in front of camera pod:	52.0 mm
Max blade width in front of camera:	19.0 mm



GVL®

Small:

Tip to front of handle:	47.0 mm
Thickness (height) at camera pod:	14.5 mm
Width of camera pod:	16.0 mm
Blade length in front of camera pod:	36.0 mm
Max blade width in front of camera:	16.0 mm



Cobalt GVL® Stat

Large:

Tip to front of handle:	95.0 mm
Thickness (height) at camera pod:	16.5 mm
Width of camera pod:	16.0 mm
Blade length in front of camera pod:	53.0 mm
Max blade width in front of camera:	27.5 mm



Cobalt GVL® Stat

Small:

Tip to front of handle:	80.0 mm
Thickness (height) at camera pod:	16.5 mm
Width of camera pod:	16.0 mm
Blade length in front of camera pod:	37.0 mm
Max blade width in front of camera:	21.0 mm



GlideScope® Cobalt Video Baton:

Length: Camera tip to SS ring:	105 mm
Height of camera:	10.6 mm
Width of camera:	10.8 mm
Cable length:	1680.0 mm
Weight:	180.0 g

7. Parts List and Approvals

Parts List

Product Code	Product Description
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0574-0001	Large GlideScope® Video Laryngoscope
0574-0007	Mid-Size GlideScope® Video Laryngoscope
0574-0010	Small GlideScope® Video Laryngoscope
0570-0185	GlideScope® Cobalt Video Baton
0574-0020	Cobalt GVL® Stat Large
0574-0022	Cobalt GVL® Stat Small
0270-0382	Cobalt Video Baton System
0270-0383	Cobalt GVL® Stat Large, Qty 12
0270-0384	Cobalt GVL® Stat Small, Qty 12
0270-0386	Cobalt GVL® Stat Large, Case, Qty 120
0270-0387	Cobalt GVL® Stat Small, Case, Qty 120
0231-0003	Portable Video Monitor, GVL®-2000
0810-0126	GlideScope® GVL® Cradle
0810-0134	GlideScope® Cobalt Cradle
0800-0299	Mobile Stand
0800-0300	Hard-Shell Case
0810-0125	IV Pole Mount
0600-0236	GlideScope®-to-Display Connector Cable 3 to 4
0600-0237	GlideScope®-to-Display Connector Cable 4 to 4
0600-0244	4.5 m (15') AC Power Cord - North America
0600-0247	0.6 m (2') AC Power Cord - North America
0600-0243	4.5 m (15') AC Power Cord - Continental Europe
0600-0246	0.6 m (2') AC Power Cord - Continental Europe
0600-0245	4.5 m (15') AC Power Cord - United Kingdom
0600-0248	0.6 m (2') AC Power Cord - United Kingdom

Product Code	Product Description
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0600-0239	Video Output Cable
0900-1204	GlideScope® GVL® /Cobalt System Operation & Service Manual (English)
0900-1200	GlideScope® GVL® Cleaning Quick Reference Card
0900-1351	GlideScope® Cobalt Assembly and Cleaning Quick Reference Card
0900-1436	GlideScope® Tips and Techniques Quick Reference Card with Ron Wall Technique
0900-1429	GlideScope® GVL® Cleaning Poster
0803-0009	Reusable Stylet with Cap and Limiter
0830-0075	GlideRite™ ET Tube, HVLP, 7.5 mm

Approvals

Standards Complied With:

- ISO 13485 Certificate No. 9235
- CE Requirements met for Class 1 Device
- IEC 60601-2-18 (Second Edition, 1996)
- IEC 60601-1-2:2001 Medical Directive
- US UL 60601-1 (First Edition)
- US UL 2601-1 (Second Edition)
- CAN/CSA C22.2 No. 601.1-M90
- AU, CA, DK, IL, and US National Differences, as per CB Bulletin 107a
- FCC Report of Measurements per FCC CFR47 Part 18

Approvals Contact Information:

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Manufacturer:

8. Symbol Directory

Symbol Meaning



Type BF equipment



CE mark in accordance with the Medical Device Directive. Class I Device.



Canadian CSA Symbol



FCC Symbol



Attention – consult accompanying documents.
Read instructions before connecting or operating.



Subject to WEEE (Waste of Electronic Electrical Equipment) regulations.